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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/062,942	01/31/2002	Barbara Vasquez	P2002,0075	5160	
75	90 06/06/2003				
LERNER AND GREENBERG, P.A. Post Office Box 2480 Hollywood, FL 33022-2480			EXAMINER ROMAN, ANGEL		
·			2812		
			DATE MAILED: 06/06/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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			A	pplication No.		Applicant(s)			
		1	10/062,942		VASQUEZ ET AL.				
	Offic	Action Summary	E	xaminer		Art Unit			
				ngel Roman		2812			
Period fo		LING DATE of this commu	nication appear	rs on the cover sheet w	ith the co	rrespondence ad	ldress		
THE - Exte after - If the - If NC - Failu - Any	MAILING Insions of time SIX (6) MONTE period for reported for reported to reply with reply received	O STATUTORY PERIOD F DATE OF THIS COMMUN may be available under the provision 'HS from the mailing date of this com ly specified above is less than thirty (ly is specified above, the maximum so in the set or extended period for repl by the Office later than three months adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a) munication. 30) days, a reply with tatutory period will al y will, by statute, cau). In no event, however, may a nin the statutory minimum of thir pply and will expire SIX (6) MON se the application to become Al	reply be time rty (30) days v NTHS from th BANDONED	y filed will be considered timel e mailing date of this c (35 U.S.C. § 133).			
1)🖂	Respons	sive to communication(s) f	iled on <u>05 Mar</u>	<u>ch 2003</u> .					
2a)⊠	This act	on is FINAL .	2b) This a	ection is non-final.					
3)		is application is in conditio					ne merits is		
Disposit	closed in ion of Cla	n accordance with the practims	ctice under Ex	parte Quayle, 1935 C.	.D. 11, 45	3 O.G. 213.			
4) 🖂	` '	1-7 is/are pending in the a							
	4a) Of the	above claim(s) is/a	are withdrawn	from consideration.					
5)🖂	Claim(s)	<u>1-4</u> is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>5-7</u> is/are rejected.								
7)	7) Claim(s) is/are objected to.								
•		are subject to restri	ction and/or el	ection requirement.					
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, —-	•	fication is objected to by the		Mtd b\	4	, the Eveniner			
10)[2]		ng(s) filed on <u>31 January 2</u> t may not request that any ob							
11)		sed drawing correction file					er		
• • • • • • • • • • • • • • • • • • • •		ed, corrected drawings are re			шоарріот	ou by the Exami			
12)	• •	or declaration is objected t	•						
· —		J.S.C. §§ 119 and 120	•						
-		edgment is made of a clain	n for foreian pr	iority under 35 U.S.C.	§ 119(a)-	(d) or (f).			
•—		☐ Some * c)☐ None of:	0 1	•		. , , ,			
,		rtified copies of the priority	documents h	ave been received.					
	2. Certified copies of the priority documents have been received in Application No								
* (pies of the certified copies application from the Inter ached detailed Office action	national Burea	u (PCT Rule 17.2(a)).			Stage		
14) 🔲 A	Acknowled	gment is made of a claim	for domestic p	riority under 35 U.S.C.	. § 119(e)	(to a provisiona	l application).		
	· —	ranslation of the foreign la Igment is made of a claim	• • •						
Attachmer			.	,					
1) Notice 2) Notice	ce of Referen	ices Cited (PTO-892) erson's Patent Drawing Review (osure Statement(s) (PTO-1449)		5) Notice of		PTO-413) Paper No atent Application (PT			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Komiyama et al. U.S. Patent 5,110,388 A.

Komiyama et al. discloses a method of applying a protective coating to a bottom surface of a wafer A, comprising; applying a protective foil 3 onto a mounting tape 2; and mounting a bottom surface of the wafer A onto the mounting tape with the protective foil 3 facing and in contact with the bottom surface of the wafer A (see figure 2) to protect the bottom surface thereof (see figure 3). Komiyama et al. also discloses dicing the wafer A including the protective foil 3 into dies (see figure 3); and picking the dies with the protective foil off the mounting tape 2 (see figures 5 and 6). The mounting tape 2 is a UV foil; and the step of picking off the dies includes applying UV-radiation B to separate the UV-foil 2 from the protective foil 3 (see figure 4).

Allowable Subject Matter

3. Claims 1-3 and 4 are allowed.

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4. The following is a statement of reasons for the indication of allowable subject matter: The related art disclosed in Sugino et al. appears to be the closes related prior art to claims 1-4 but lacks anticipation on filling the trenches by applying a material to the bottom surface of the wafer as required by claims 1 and 3. In the examiner's opinion it would not have been obvious to fill the trenches with the material applied to the bottom surface of the wafer in the Sugino et al. reference.

Response to Arguments

5. Applicant's arguments with respect to claims 1-7 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kimura et al. and Nixon et al. disclose methods for dicing a semiconductor wafer by forming trenches in a front surface of the wafers and grinding a back side of the wafers.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel Roman whose telephone number is (703) 306-0207. The examiner can normally be reached on Monday-Friday 8:30am-6:00pm.

than SIX MONTHS from the date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

AR May 22, 2003

> John F. Niebling Supervisory Patent Examiner Technology Center 2800